

## AMENDMENTS TO THE CLAIMS

### **1 to 5. (Canceled)**

**6. (New)** A method for smoothing a surface of a powder-sintered laminated resin model with a porous rough surface comprising:

a resin impregnation step of dipping said powder-sintered laminated resin model (A) in a two-pack reaction hardening type urethane resin solution (B) with a work life of 1 to 5 minutes and viscosity of 7 to 30 Pas and then decreasing pressure so as to impregnate said surface of said resin model (A) with said two-pack reaction hardening type urethane resin solution (B); and

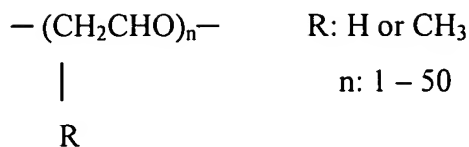
a resin hardening step of bringing up said powder-sintered laminated resin model (A) impregnated with said two-pack reaction hardening type urethane resin solution (B) from said two-pack reaction hardening type urethane resin solution (B) and hardening said resin model (A).

**7. (New)** The method for smoothing a surface according to claim 6, wherein said two-pack reaction hardening type urethane resin solution (A) preferably comprises multifunctional polyol component (a), multifunctional polyisocyanate component (b) and a plasticizer component (c).

**8. (New)** The method according to claim 7 wherein an average functional group of the multifunctional polyol component (a) is in a range from 2.0 to 4.0, an average functional group of the multifunctional polyisocyanate component (b) is in a range from 3.0 to 5.0, and a ratio NCO/OH is in a range from 0.7 to 1.0.

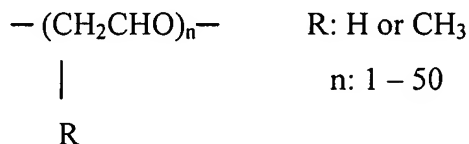
**9. (New)** The method for smoothing a surface according to claim 7, wherein:

said two-pack reaction hardening type urethane resin solution (A) preferably contains a plasticizer component (c) of 10 - 30 % which is in a liquid state at normal temperature and polyether chains having a chemical structure indicated in the chemical structural formula as follows at 5 - 35 wt% thereof.



**10. (New)** The method for smoothing a surface according to claim 6, wherein:

said two-pack reaction hardening type urethane resin solution (A) preferably contains a plasticizer component (c) of 10 - 30 % which is in a liquid state at normal temperature and polyether chains having a chemical structure indicated in the chemical structural formula as follows at 5 - 35 wt% thereof.



**11. (New)** The method for smoothing a surface according to claim 6, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

**12. (New)** The method for smoothing a surface according to claim 7, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

**13. (New)** The method for smoothing a surface according to claim 9, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

**14. (Currently Amended)** The method for smoothing a surface according to claim 10, wherein:

said plasticizer component (c) is preferably micro-dispersed through phase separation at rapid reaction hardening of the two-pack reaction hardening type urethane resin solution (B).

**15. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 6.

**16. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 7.

**17. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 9.

**18. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 10.

**19. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 11.

**20. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 12.

**21. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 13.

**22. (New)** A process for lost wax precision casting using said powder-sintered laminated resin model having a surface smoothed by said method according to claim 14.